

FIGURE 1

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5'-ATG TGG AAA TGG ATA CTG ACA CAT TGT GCC TCA GCC TTT CCC CAC-
+-----+-----+-----+-----+-----+-----+-----+-----+
Met Trp Lys Trp Ile Leu Thr His Cys Ala Ser Ala Phe Pro His-
-CTG CCC GGC TGC TGC TGC TGC TGC TTT TTG TTG CTG TTC TTG GTG-
+-----+-----+-----+-----+-----+-----+-----+-----+
Leu Pro Gly Cys Cys Cys Cys Cys Phe Leu Leu Leu Phe Leu Val-
-TCT TCC GTC CCT GTC ACC TGC CAA GCC CTT GGT CAG GAC ATG GTG-
+-----+-----+-----+-----+-----+-----+-----+-----+
Ser Ser Val Pro Val Thr Cys Gln Ala Leu Gly Gln Asp Met Val-
-TCA CCA GAG GCC ACC AAC TCT TCT TCC TCC TCC TTC TCC TCT CCT-
+-----+-----+-----+-----+-----+-----+-----+-----+
Ser Pro Glu Ala Thr Asn Ser Ser Ser Ser Ser Phe Ser Ser Pro-
-TCC AGC GCG GGA AGG CAT GTG CGG AGC TAC AAT CAC CTT CAA GGA-
+-----+-----+-----+-----+-----+-----+-----+-----+
Ser Ser Ala Gly Arg His Val Arg Ser Tyr Asn His Leu Gln Gly-
-GAT GTC CGC TGG AGA AAG CTA TTC TCT TTC ACC AAG TAC TTT CTC-
+-----+-----+-----+-----+-----+-----+-----+-----+
Asp Val Arg Trp Arg Lys Leu Phe Ser Phe Thr Lys Tyr Phe Leu-
-AAG ATT GAG AAG AAC GGG AAG GTC AGC GGG ACC AAG AAG GAG AAC-
+-----+-----+-----+-----+-----+-----+-----+-----+
Lys Ile Glu Lys Asn Gly Lys Val Ser Gly Thr Lys Lys Glu Asn-
-TGC CCG TAC AGC ATC CTG GAG ATA ACA TCA GTA GAA ATC GGA GTT-
+-----+-----+-----+-----+-----+-----+-----+-----+
Cys Pro Tyr Ser Ile Leu Glu Ile Thr Ser Val Glu Ile Gly Val-
-GTT GCC GTC AAA GCC ATT AAC AGC AAC TAT TAC TTA GCC ATG AAC-
+-----+-----+-----+-----+-----+-----+-----+-----+
Val Ala Val Lys Ala Ile Asn Ser Asn Tyr Tyr Leu Ala Met Asn-
-AAG AAG GGG AAA CTC TAT GGC TCA AAA GAA TTT AAC AAT GAC TGT-
+-----+-----+-----+-----+-----+-----+-----+-----+
Lys Lys Gly Lys Leu Tyr Gly Ser Lys Glu Phe Asn Asn Asp Cys-
-AAG CTG AAG GAG AGG ATA GAG GAA AAT GGA TAC AAT ACC TAT GCA-
+-----+-----+-----+-----+-----+-----+-----+-----+
Lys Leu Lys Glu Arg Ile Glu Glu Asn Gly Tyr Asn Thr Tyr Ala-
-TCA TTT AAC TGG CAG CAT AAT GGG AGG CAA ATG TAT GTG GCA TTG-
+-----+-----+-----+-----+-----+-----+-----+-----+
Ser Phe Asn Trp Gln His Asn Gly Arg Gln Met Tyr Val Ala Leu-
-AAT GGA AAA GGA GCT CCA AGG AGA GGA CAG AAA ACA CGA AGG AAA-
+-----+-----+-----+-----+-----+-----+-----+-----+
Asn Gly Lys Gly Ala Pro Arg Arg Gly Gln Lys Thr Arg Arg Lys-
-AAC ACC TCT GCT CAC TTT CTT CCA ATG GTG GTA CAC TCA TAG-3'
+-----+-----+-----+-----+-----+-----+-----+-----+
Asn Thr Ser Ala His Phe Leu Pro Met Val Val His Ser *
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FIGURE 2

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5'- ATGTCCTACAATCACCTGCAGGGAGATGTCCGCTGGAGAAAGCTGTTCTCCTTCACCAAG-
+-----+-----+-----+-----+-----+-----+
M S Y N H L Q G D V R W R K L F S F T K

-TACTTTCTCAAGATTGAAAAGAACGGCAAGGTCAGCGGGACCAAGAAGGAAAACCTGTCCG-
+-----+-----+-----+-----+-----+-----+
Y F L K I E K N G K V S G T K K E N C P-

-TACAGTATCCTAGAGATAACATCAGTGGAAATCGGAGTTGTTGCCGTCAAAGCCATTAAAC-
+-----+-----+-----+-----+-----+-----+
Y S I L E I T S V E I G V V A V K A I N-

-AGCAACTATTACTTAGCCATGAACAAGAAGGGGAAACTCTATGGCTCAAAGAATTAAAC-
+-----+-----+-----+-----+-----+-----+
S N Y Y L A M N K K G K L Y G S K E F N-

-AATGACTGTAAACTGAAAGAGAGGATAGAGGAAAATGGATACAACACCTATGCATCTTTT-
+-----+-----+-----+-----+-----+-----+
N D C K L K E R I E E N G Y N T Y A S F-

-AACTGGCAGCACAAACGGCAGGCAAATGTATGTGGCATTGAATGGAAAAGGAGCTCCCAGG-
+-----+-----+-----+-----+-----+-----+
N W Q H N G R Q M Y V A L N G K G A P R-

-AGAGGACAAAAACAAGAAGGAAAAACACCTCCGCTCACTTCCTCCCATGGTGGTCCAC-
+-----+-----+-----+-----+-----+-----+
R G Q K T R R K N T S A H F L P M V V H -

-TCATAA -3'
+-----+-----+-----+-----+-----+-----+
S *
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FIGURE 3

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5'- ATGTCTTCTCCTTCCTCTGCAGGTAGGCATGTGCGGAGCTACAATCACCTCCAGGGAGAT-
  +-----+-----+-----+-----+-----+-----+-----+-----+
  M S S P S S A G R H V R S Y N H L Q G D-

-GTCCGCTGGAGAAAGCTGTTCTCCTTCACCAAGTACTTTCTCAAGATTGAAAAGAACGGC-
  +-----+-----+-----+-----+-----+-----+-----+-----+
  V R W R K L F S F T K Y F L K I E K N G-

-AAGGTCAGCGGGACCAAGAAGGAAAACTGTCCGTACAGTATCCTAGAGATAACATCAGTG-
  +-----+-----+-----+-----+-----+-----+-----+-----+
  K V S G T K K E N C P Y S I L E I T S V-

-GAAATCGGAGTTGTTGCCGTCAAAGCCATTAACAGCAACTATTACTTAGCCATGAACAAG-
  +-----+-----+-----+-----+-----+-----+-----+-----+
  E I G V V A V K A I N S N Y Y L A M N K-

-AAGGGGAAACTCTATGGCTCAAAAAGAATTTAACAATGACTGTAAACTGAAAGAGAGGATA-
  +-----+-----+-----+-----+-----+-----+-----+-----+
  K G K L Y G S K E F N N D C K L K E R I-

-GAGGAAAATGGATACAACACCTATGCATCTTTTAACTGGCAGCACAAACGGCAGGCAAATG-
  +-----+-----+-----+-----+-----+-----+-----+-----+
  E E N G Y N T Y A S F N W Q H N G R Q M-

-TATGTGGCATTGAATGGAAAAGGAGCTCCCAGGAGAGGACAAAAACAAGAAGGAAAAAC-
  +-----+-----+-----+-----+-----+-----+-----+-----+
  Y V A L N G K G A P R R G Q K T R R K N-

-ACCTCCGCTCACTTCCTCCCCATGGTGGTCCACTCATAA -3'
  +-----+-----+-----+-----+-----+-----+-----+-----+
  T S A H F L P M V V H S *

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FIGURE 4

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5'- ATGCTGGGTCAGGACATGGTTTCTCCGGAGGCTACCAACTCTAGCTCCAGCAGCTTCTCC-
+-----+-----+-----+-----+-----+-----+-----+-----+
M L G Q D M V S P E A T N S S S S S S F S-
-TCTCCTAGCTCTGCAGGTAGGCATGTGCGGAGCTACAATCACCTCCAGGGAGATGTCCGC-
+-----+-----+-----+-----+-----+-----+-----+-----+
S P S S A G R H V R S Y N H L Q G D V R-
-TGGAGAAAGCTGTTCTCCTTCACCAAGTACTTTCTCAAGATTGAAAAGAACGGCAAGGTC-
+-----+-----+-----+-----+-----+-----+-----+-----+
W R K L F S F T K Y F L K I E K N G K V-
-AGCGGGACCAAGAAGGAAAACTGTCCGTACAGTATCCTAGAGATAACATCAGTGAAATC-
+-----+-----+-----+-----+-----+-----+-----+-----+
S G T K K E N C P Y S I L E I T S V E I-
-GGAGTTGTTGCCGTCAAAGCCATTAACAGCAACTATTACTTAGCCATGAACAAGAAGGGG-
+-----+-----+-----+-----+-----+-----+-----+-----+
G V V A V K A I N S N Y Y L A M N K K G-
-AAACTCTATGGCTCAAAAGAATTTAACAATGACTGTAAACTGAAAGAGAGGATAGAGGAA-
+-----+-----+-----+-----+-----+-----+-----+-----+
K L Y G S K E F N N D C K L K E R I E E -
-AATGGATACAACACCTATGCATCTTTTAACTGGCAGCACAAACGGCAGGCAAATGTATGTG-
+-----+-----+-----+-----+-----+-----+-----+-----+
N G Y N T Y A S F N W Q H N G R Q M Y V-
-GCATTGAATGAAAAGGAGCTCCCAGGCAGGGACAAAAACAAGAAGGAAAAACACCTCC-
+-----+-----+-----+-----+-----+-----+-----+-----+
A L N G K G A P R Q G Q K T R R K N T S-
-GCTCACTTCCTCCCCATGGTGGTCCACTCATAA -3'
+-----+-----+-----+-----+-----+-----+-----+-----+
A H F L P M V V H S *

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